

Title (en)

IMPROVEMENTS IN OR RELATING TO CALIBRATION OF INSTRUMENTS

Title (de)

VERBESSERUNGEN AN ODER IM ZUSAMMENHANG MIT DER KALIBRIERUNG VON INSTRUMENTEN

Title (fr)

AMÉLIORATIONS DANS L'ÉTALONNAGE D'INSTRUMENTS OU CONCERNANT L'ÉTALONNAGE D'INSTRUMENTS

Publication

**EP 3071944 A1 20160928 (EN)**

Application

**EP 14796868 A 20141107**

Priority

- GB 201320475 A 20131120
- GB 2014053314 W 20141107

Abstract (en)

[origin: GB2520491A] Calibrating an apparatus for optically characterising samples of particles of small size comprises using a sample of a calibration population of particles which is substantially monodisperse, homogeneous and has a known concentration of particles per unit volume. The sample is analysed to determine, for a particular combination of apparatus conditions or settings, the number of particles detected and the average brightness of individually detected and measured particles. A new particular combination of apparatus conditions or settings is applied and the analysis is repeated for the same sample, or another from the same calibration population. The analysis may be further repeated for further new combinations of apparatus conditions or settings. A calibration plot or look-up table of brightness of particle against number of particles detected is derived from the analyses, which is used to calibrate the apparatus against subsequent analysis of populations of particles of unknown concentration. The apparatus may be for nanoparticle tracking analysis (NTA).

IPC 8 full level

**G01N 15/02** (2006.01); **G01N 15/06** (2006.01)

CPC (source: EP GB US)

**G01N 1/28** (2013.01 - US); **G01N 15/0205** (2013.01 - GB); **G01N 15/0227** (2013.01 - EP US); **G01N 15/06** (2013.01 - GB US); **G01N 15/1012** (2013.01 - GB); **G01N 33/483** (2013.01 - EP US); **B82Y 35/00** (2013.01 - US); **G01N 15/01** (2024.01 - US); **G01N 15/075** (2024.01 - EP US); **G01N 2001/2893** (2013.01 - US); **G01N 2015/0038** (2013.01 - EP US); **G01N 2015/0294** (2013.01 - US); **Y10S 977/901** (2013.01 - EP US)

Citation (search report)

See references of WO 2015075424A1

Cited by

EP4365571A1; WO2024094971A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**GB 201320475 D0 20140101**; **GB 2520491 A 20150527**; CN 105765364 A 20160713; CN 105765364 B 20210713; EP 3071944 A1 20160928; EP 3071944 B1 20191225; JP 2017500549 A 20170105; JP 6505101 B2 20190424; US 2016290911 A1 20161006; US 9909970 B2 20180306; WO 2015075424 A1 20150528

DOCDB simple family (application)

**GB 201320475 A 20131120**; CN 201480063550 A 20141107; EP 14796868 A 20141107; GB 2014053314 W 20141107; JP 2016532081 A 20141107; US 201415037888 A 20141107